

King Fahd University of Petroleum and Minerals
Department of Mathematics and Statistics
Math-201 Semester-131 QUIZ II

NAME:

S.No.

ID:

Maximum Marks: 10

Section:15

Time Allowed: 20 minutes

(1) Sketch the curve for the polar equation $r = 2 - 2\cos 2\theta$.

(2) Find the area outside the curve $r = \cos\theta$ and inside the curve $r = 1 + \cos\theta$, where $0 \leq \theta \leq \frac{\pi}{6}$.